

DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge Program

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September 07, 2007

Contract No. 04-0120F4

04-SF-80-13.2 / 13.9

Self-Anchored Suspension Bridge

Letter No. 05.03.01-000548

Michael Flowers

Project Executive

American Bridge/Fluor Enterprises, a JV

375 Burma Road

Oakland, CA 94607

Dear Michael Flowers,

Submittal 234 - Dimension Control Plan – OBG & Crossbeams

The Department has completed review of Submittal ABF-SUB-000234R01, "Dimension Control Plan - OBG & Crossbeams," dated September 5, 2007. The Department understands that this revision supercedes ABF-SUB-000234R00, which will not be commented on. The submittal is "Returned for Correction" as shown on the attached drawings and in the following comments:

1. Special Provisions section 10-1.59, "STEEL STRUCTURES," subsection, "Shop Welding," subsection "Design Details," Item G.3.e, requires the use of either the floorbeam or a rigid template for the alignment of the ribs at each floorbeam location and at the ends of each box girder segment. The revised submittal will include this requirement or, alternatively, ZPMC may propose another equally positive method for approval by the Engineer.
2. Describe how the tolerance for misalignment of spliced/butted discontinuous members (item G.2) will meet the limit of 10% of the thickness of the thinner member of 3 mm, whichever is less. Meeting individual tolerances may not be sufficient when sections of separately fabricated assemblies are joined.
3. Additional information is requested to address Corner Segment Fabrication tolerances. Specifically, how does ZPMC intend to address misalignment of floorbeams in the main girder segments with diaphragm plates in the corner segment?
4. There are items in the plan that are inconsistent with the Deck Plate Mock-up Fabrication Procedure. For example, opening width "B" is measured with a template in the mock-up procedure. Other dimensional control checks for the closed ribs and the openings in the web plate for the ribs are insufficient and should be described in more detail to assure that both dimensional tolerances and welding tolerances can be met. See comments on the drawings.

5. As outlined in General Section 1.1 and as shown in tables provided, tolerances designated "ZPMC" shall be limited to interim tolerances, and as such, would not require the approval of the Engineer. However, the dimensional control procedure shall describe how the required tolerances will be checked and achieved during fabrication. One way to achieve this would be to present a clear reference to each tolerance in "Design Details," Item G.

If you have any questions please contact Gary Lai in the Working Drawing Campus.

Sincerely,

<<< ORIGINAL SIGNED >>>

GARY PURSELL
Resident Engineer

Attachment

cc: Rick Morrow, Brian Boal
file: 05.03.01, 55.0234